From: Thayer, Kris [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=3CE4AE3F107749C6815F243260DF98C3-THAYER, KRI]
Sent: 11/20/2018 6:31:06 AM
To: Garcia, Kelly [garcia.kelly@epa.gov]; Schlosser, Paul [Schlosser.Paul@epa.gov]; White, Paul
[White.Paul@epa.gov]; Lin, Yu-Sheng [Lin.Yu-Sheng@epa.gov]; Wright, Michael
[Wright.Michael@epa.gov]; Bateson, Thomas [Bateson.Thomas@epa.gov]; Vandenberg, John
[Vandenberg.John@epa.gov]; Bussard, David [Bussard.David@epa.gov]; Ramasamy, Santhini
[Ramasamy.Santhini@epa.gov]; Morozov, Viktor [Morozov.Viktor@epa.gov]; Bahadori, Tina
[Bahadori.Tina@epa.gov]; Lavoie, Emma [Lavoie.Emma@epa.gov]
Subject: RE: PBPK models for Manganese discussion (Updated with materials)

Thayer, Kris has shared a OneDrive for Business file with you. To view it, click the link below.

📄 Summary of Mn PBPK Meeting.docx

I wanted to get some feedback on this meeting summary that would be posted on the IRIS site before posting...and I guess we should share for quick review as a courtesy with other EPA attendees who aren't part of the core team. Apologies if I missed anyone – this list was culled from recipients of the meeting invite.

Summary of Meeting Action Items

Event Title: Manganese (Mn) Physiologically based pharmacokinetic (PBPK) Modeling Updates
Date: November 20, 2018
Time: 9:00 PM – 12:00 PM
Keywords: IRIS, Manganese
Attendees:
THIS IS STOLEN FOR CHLOROPRENE and is only a partial, Kris has Kelly to update
Harvey Clewell - Ramboll
Tina Bahadori – US, EPA, NCEA
Tom Bateson – US, EPA, NCEA
David Bussard – US, EPA, NCEA
Yu-Sheng Lin– US, EPA, NCEA
Viktor Morozov– US, EPA, NCEA
Paul Schlosser – US, EPA, NCEA
Santhini Ramasamy– US, EPA, NCEA
Kris Thayer – US, EPA, NCEA
John Vandenberg – US, EPA, NCEA
Mike Wright– US, EPA, NCEA

Summary of meeting activities and next steps:
- EPA Presentations
  - Quality Assurance Project Plan (QAPP) for PBPK Models, Paul Schlosser, U.S. EPA (attached)

- o Development of Manganese Pharmacokinetic Data under Section 211(b) of the Clean Air Act (CAA), William Boyes, U.S. EPA (attached)
- Ramboll/ToxStrategies/Mel Anderson slides (attached as one set):
  - o Background on Mn PBPK Models and Applications to Evaluate Safe Exposures, Harvey Clewell, Ramboll and Miyoung Yoon, ToxStrategies (attached)
  - o Sensitivity Analysis for the Published Adult Human Mn Model, Cynthia Van Landingham, Ramboll
  - o PBPK Modeling of Bioavailability of Mn in Diet and Drinking Water, Miyoung Yoon, ToxStrategies
  - o PBPK Modeling for Mn with Rapid Association – Dissociation in Tissues, Mel Andersen, Andersen ToxConsulting
- Items for Discussion and Next Steps

Ex. 5 Deliberative Process (DP)

-----Original Appointment-----
From: Garcia, Kelly
Sent: Tuesday, October 30, 2018 10:47 AM
To: Garcia, Kelly; Schlosser, Paul; Thayer, Kris; Brown, James; Boyes, William; Jarabek, Annie; White, Paul; Hoyer, Marion; Lin, Yu-Sheng; Wright, Michael; Bateson, Thomas; Vandenberg, John; Ex. 6 Personal Privacy (PP) Ramasamy, Santhini
Cc: Morozov, Viktor; Bussard, David; rgentry@ramboll.com; cvanlandingham@ramboll.com; Kenyon, Elaina; Cook, Rich; Sopata, Joe; Smith, Darcie
Subject: PBPK models for Manganese discussion (Updated with materials)
When: Friday, November 16, 2018 9:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: DCRoomRRB51109-1

Good morning,

Paul Schlosser has requested that I hold this time for a meeting between EPA and the team developing PBPK models for Manganese. Please find the agenda and logistics below.

Agenda
1. Welcome from Kris Thayer, U.S. EPA
2. EPA Quality Assurance Project Plan (QAPP) for PBPK Models, Paul Schlosser, U.S. EPA
3. Background on Mn PBPK models, Mel Andersen, private consultant
4. New work on Mn PBPK models, Mel Andersen and colleagues
   a. Adding drinking water as a route of entry
   b. Developing a model with rapid tissue binding/dissociation rate constants
   c. Sensitivity analysis for PBPK models

Meeting logistics
Rooms: DC 51109-1 (5th floor fishbowl); RTP B-249
Call in number Ex. 6 Personal Privacy (PP)
Pin: Ex. 6 Personal Privacy (PP)
Adobe Connect webinar **Ex. 6 Personal Privacy (PP)**